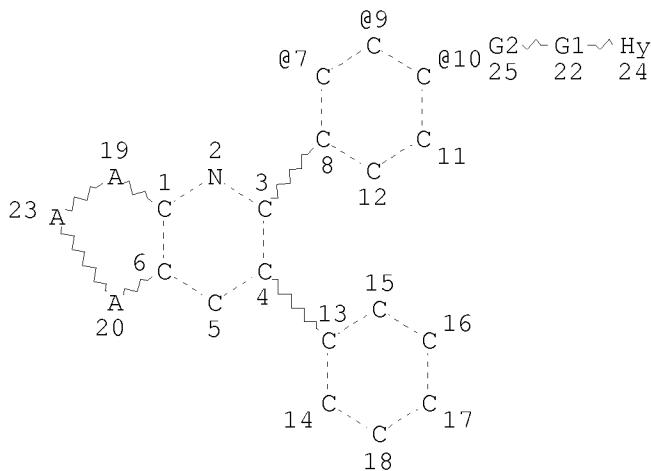


L7

STR



REP G1=(0-2) C

VAR G2=7/9/10

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC 8 13

NUMBER OF NODES IS 24

STEREO ATTRIBUTES: NONE

=> s 17 ful

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FULL SCREEN SEARCH COMPLETED = 40161 TO ITERATE

100.0% PROCESSED 40161 ITERATIONS

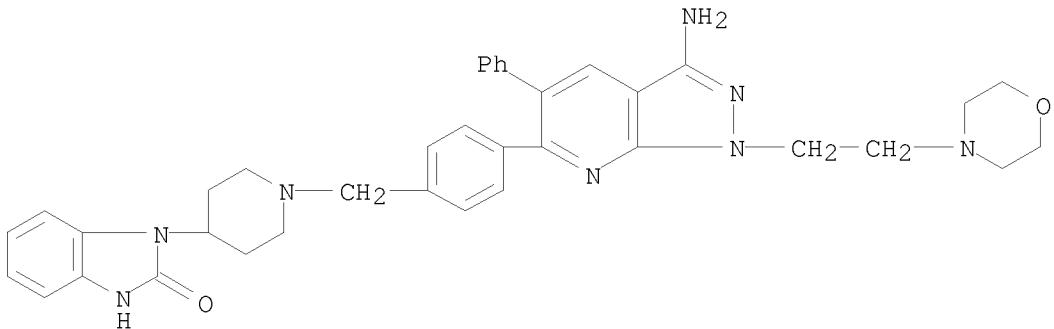
25 ANSWERS

SEARCH TIME: 00:00:02

1.9 2.5 SEA SSS FUL 1.7

=> d scan

L9 25 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN 2H-Benzimidazol-2-one, 1-[1-[(4-[3-amino-1-[2-(4-morpholinyl)ethyl]-5-phenyl-1H-pyrazolo[3,4-b]pyridin-6-yl]phenyl)methyl]-4-piperidinyl]-1,3-dihydro-
MF C37 H40 N8 O2
CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

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COST IN U.S. DOLLARS
SINCE FILE
ENTRY
TOTAL
SESSION
185.26
185.47
FULL ESTIMATED COST

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FILE LAST UPDATED: 6 Jul 2008 (20080706/ED)

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=> s 19
L10 2 L9

=> d bib abs 1-2

L10 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2008:338631 CAPLUS
DN 148:528852
TI Rapid assembly of diverse and potent allosteric Akt inhibitors

AU Wu, Zhicai; Robinson, Ronald G.; Fu, Sheng; Barnett, Stanley F.;
 Defeo-Jones, Deborah; Jones, Raymond E.; Kral, Astrid M.; Huber, Hans E.;
 Kohl, Nancy E.; Hartman, George D.; Bilodeau, Mark T.
 CS Department of Medicinal Chemistry, Merck Research Laboratories, Merck &
 Co., West Point, PA, 19486, USA
 SO Bioorganic & Medicinal Chemistry Letters (2008), 18(6), 2211-2214
 CODEN: BMCLE8; ISSN: 0960-894X
 PB Elsevier Ltd.
 DT Journal
 LA English
 AB This paper describes the rapid assembly of four different classes of
 potent Akt inhibitors from a common intermediate. Among them, a
 pyridopyrimidine series displayed the best intrinsic and cell potency
 against Akt1 and Akt2. This series also showed a promising
 pharmacokinetic profile and excellent selectivity over other closely
 related kinases.

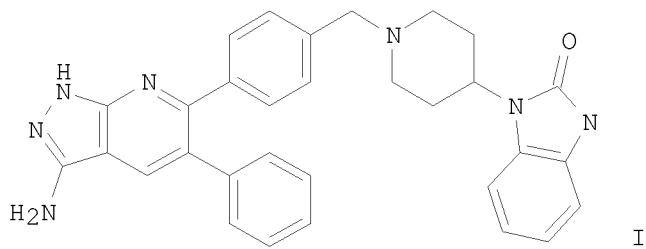
RE.CNT 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2004:964996 CAPLUS
 DN 141:406037
 TI Heterocyclic compound inhibitors of Akt kinase activity, and use for the
 treatment of cancer
 IN Bilodeau, Mark T.; Wu, Zhicai
 PA Merck & Co., Inc., USA
 SO PCT Int. Appl., 62 pp.
 CODEN: PIXXD2

DT Patent
 LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|--|------|----------|------------------|----------|
| PI | WO 2004096130 | A2 | 20041111 | WO 2004-US12187 | 20040420 |
| | WO 2004096130 | A3 | 20050407 | | |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| | AU 2004233827 | A1 | 20041111 | AU 2004-233827 | 20040420 |
| | CA 2522430 | A1 | 20041111 | CA 2004-2522430 | 20040420 |
| | EP 1620095 | A2 | 20060201 | EP 2004-760293 | 20040420 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK | | | | |
| | CN 1809351 | A | 20060726 | CN 2004-80017101 | 20040420 |
| | JP 2006524254 | T | 20061026 | JP 2006-513159 | 20040420 |
| | US 20060205765 | A1 | 20060914 | US 2005-554185 | 20051021 |
| PRAI | US 2003-465123P | P | 20030424 | | |
| | WO 2004-US12187 | W | 20040420 | | |
| OS | MARPAT 141:406037 | | | | |
| GI | | | | | |



AB The invention discloses compds. which contain a five-membered heterocyclic ring fused to a substituted pyridine moiety which inhibit the activity of Akt, a serine/threonine protein kinase. The invention further discloses chemotherapeutic compns. containing the compds. of the invention and methods for treating cancer comprising administration of the compds. of the invention. Preparation of compds., e.g. I, is described.